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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/578,732	11/22/2006	Jae-Kyu Jung	22578-006US1 080.US2.PCT	9799
26204	7590	09/26/2007	EXAMINER	
FISH & RICHARDSON P.C. P.O. BOX 1022 MINNEAPOLIS, MN 55440-1022			SOLOLA, TAOFIQ A	
ART UNIT		PAPER NUMBER		
1625				
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)
	10/578,732	JUNG ET AL.
	Examiner	Art Unit
	Taofiq A. Solola	1625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on _____.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-35 and 48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) _____ is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) 1-35, 48 are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) <input type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____
3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____

Art Unit: 1625

Claims 1-35, 48 are pending in this application.

Claims 36-47 are cancelled.

DETAILED ACTION

Election/Restriction

Claims 1-35, 48 are drawn to more than one inventive concept (as defined by PCT Rule 13) and, accordingly, a restriction is required according to the provision of PCT Rule 13.2.

PCT Rule 13.1 states that the international application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept (requirement of unity of invention).

PCT Rule 13.2 states that unity of invention referred to in Rule 13.1 shall be fulfilled only when there is a technical relationship among those inventions involving one or more of the same or corresponding special technical features.

Annex B, Part 1(b), provides that special technical features mean those technical features which, as a whole, define a contribution over the prior art (novelty/unobviousness).

I. Claims 1-26, drawn to examples 1, 41 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

II. Claims 1-26, drawn to examples 2-8, 21-28, 50, 53, 55-56 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

III. Claims 1-26, drawn to example 9 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

IV. Claims 1-26, drawn to examples 10-20, 29-32, 34-40, 42-44, 47-49, 51-52, 54, 57 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

V. Claims 1-26, drawn to example 33 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

VI. Claims 1-26, drawn to examples 45-46 and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

VII. Claims 1-26, drawn to any compound in the claims but not in groups I –VI above and composition thereof, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses. The compound must be disclosed in the specification.

VIII. Claims 27-35, drawn to methods of using compounds of groups I-VII, classifiable in several non-heterocyclic classes (514, 558, 562, etc.), numerous subclasses.

IX. Claim 48, drawn to a process of making, classifiable in several non-heterocyclic classes (558, 562, etc.), numerous subclasses.

In the instant inventions, the only structural element shared by groups I-IX is 4-oxo-4,5-dihydro-furan-2-carboxylate. However, 4-oxo-4,5-dihydro-furan-2-carboxylate is obvious and/or not novel. See D2-D4 in the International Search Report. Therefore, under PCT Rules 13.1 and 13.2, 4-oxo-4,5-dihydro-furan-2-carboxylate does not constitute a corresponding special technical feature among the groups.

If applicant elects the invention of group VIII or IX, one of groups I-VII must be elected and the elected invention would be examined commensurate in scope therewith.

If applicant elects the invention of group VIII or in a rejoinder thereof applicant must elect a specific disease and the elected invention would be examined commensurate in scope therewith.

In an election of any of groups I-IX, a single compound (or set of compounds) an exact definition of each substitution on the base molecule (Formula I), wherein a single member at each substituent group or moiety is selected. For example, if a base molecule has a substituent group R1, wherein R1 is recited to be any one of H, OH, COOH, aryl, alkoxy, halogen, amino, etc., then applicant must select a single substituent of R1, for example OH or aryl, at each subsequent variable position.

In the instant case, Applicant must elect one representative for R1-R4, etc, in formula I, and the point of attachment of each elected substituent must be specified. The elected substituents must be specific not generic. Applicant must provide the structure of the species. The species must be disclosed in the specification. The parts of the elected species corresponding to the substituents in formula I must be identified.

In a telephone call made to John Kendall on 9/21/07, to request an oral election to the above restriction requirement, but did not result in an election being made.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Rejoinder

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder.** Further, note that the prohibition against double

patenting rejections of 35 U.S.C. 121 does not apply where the examiner before the patent issues withdraws the restriction requirement. See MPEP § 804.01.

Telephone Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Taofiq A. Solola, PhD. JD., whose telephone number is (571) 272-0709. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres, can be reached on (571) 272-0867. The fax phone number for this Group is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (571) 272-1600.



TAOFIQ SOLOLA
PRIMARY EXAMINER

Group 1625

September 21, 2007